320 Assign6

downing3

November 2023

1 Question 1

<expr> <expr> let <id> = <expr> in <expr> <expr> let a = <expr> in <expr> let <id> = <expr> in <expr> let a = <id> in <expr> let a = b in <expr> let a = <id> in <expr> let a = b in <expr>; <expr> let a = b in <expr> let a = b in <id>; <expr> | / | let a = b in a ; <expr> let a = b in a let a = b in a ; <id> let a = b in a ; c

let a = b in a ; c

2 Question 2

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 \begin{aligned} &<\operatorname{id}> ::= a \mid b \mid c \mid d \mid \dots \mid z \\ &<\operatorname{dig}> ::= 0 \mid 1 \mid 2 \mid \dots \mid 9 \\ \end{aligned} \\ &<\operatorname{single\_expr}> ::= <\operatorname{id}> \mid <\operatorname{dig}> \\ &<\operatorname{let\_expr}> ::= \operatorname{let}<\operatorname{id}> = <\operatorname{expr}> \operatorname{in}<\operatorname{expr}> \\ &<\operatorname{two\_expr}> ::= <\operatorname{expr}>; <\operatorname{expr}> \\ &<\operatorname{other\_expr}> ::= (<\operatorname{expr}>) \mid \operatorname{begin}<\operatorname{expr}> \operatorname{end} \\ &<\operatorname{expr}> ::= <\operatorname{single\_expr}> \\ &\mid <\operatorname{let\_expr}> \\ &\mid <\operatorname{two\_expr}> \\ &\mid <\operatorname{other\_expr}> \\ &\mid <\operatorname{other\_expr}> \end{aligned}
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3 Question 3

